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The feasibility of magnetic recording at 10 terabits per square inch on conventional media

R Wood, M Williams, A Kavcic... - ... , IEEE Transactions on, 2009 - ieeexplore.ieee.org

... the **disk**. One approach to organizing data on a **drive** was described by Kasiraj and Williams [4]. In this case the head is assumed to be symmetric, to be of moderate overall width, and to be roughly rectangular with two "corners" either of which can be used to **write shingled** tracks ...

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Future options for HDD storage

Y Shiroishi, K Fukuda, I Tagawa... - ... - Magnetics, IEEE ..., 2009 - ieeexplore.ieee.org

... SWR has advantages of much stronger **write** field due to larger pole and sharp corner-edge field ...

Reading a sector from a **shingled** written surface may have conventional performance. ... After the target track is updated, the recovered tracks must be rewritten back onto the **disk** ...

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System and method for writing HDD depending on direction of head skew

P Kasiraj... - US Patent App. 10/674,155, 2003 - Google Patents

... 14. The system of claim 10, wherein the **write** element is configured for longitudinal recording, and the first radial sequence is radially inward. 15. The system of claim 10, wherein the tracks are **shingled**. 16. A hard **disk drive** (HDD) comprising: at least one **disk** defining bands of ...

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Shingled Recording for 2-3 Tbit/in< formula formulatype=

S Greaves, Y Kanai... - ... , IEEE Transactions on, 2009 - ieeexplore.ieee.org

... In a real **disk drive** the read head would not be able to follow the written tracks exactly and there would be an offset between the read ... CONCLUSION **Shingled** recording was investigated for a combination of continuous ECC media and an optimised, single pole **write** head. ...

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Log-structured file system for **disk** drives with **shingled** writing

RMAH New... - US Patent App. 10/674,081, 2003 - Google Patents

... a **disk drive** which uses **shingled** track writing may require a different kind of file system structure from a conventional hard **disk drive**. SUMMARY OF THE INVENTION [0008] A hard **disk drive**

(HDD) includes at least one rotatable **disk** and at least one **write** element configured for ...

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System and method for writing data to dedicated bands of a hard **disk drive**

P Kasiraj, RMH New, JC De Souza... - US Patent ..., 2009 - Google Patents

... What is claimed is: 1. A hard **disk drive**, comprising: (a) **disk** storage means for holding data in at ... one and only one file or AV stream is written to a band on the **disk** storage means ... is not used; wherein the means for controlling cause the means for writing to **write shingled** tracks. ...

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Track allocation method of **disk drive**

T Uemura... - US Patent 7,408,731, 2008 - Google Patents

... transferred. If it does, an area is transferred from the spare or tilted track (TT) area to the **shingled** track (ST) area. ... density. The 35 writing margins are needed on both sides of each track on the **disk drive** to **write** data to sectors at random. However ...

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System and method for writing data to HDD in bands

P Kasiraj, RMH New, JC De Souza... - US Patent App. 10/ ... , 2008 - Google Patents

... a **disk drive** which uses **shingled** track writing may require a different kind of file system structure from a conventional hard **disk drive**. SUMMARY OF THE INVENTION [0007] A hard **disk drive**

(HDD) includes at least one rotatable **disk** and at least one **write** element configured for ...

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M Alliaoui, M Ben-Yehuda, J Satran, I Segall... - computer.org

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Design issues for a **shingled write disk** system

[\[PDF\] from IEEE.org](#)

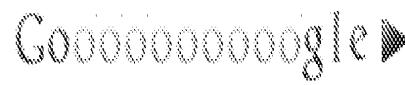
A Amer, DDE Long, EL Miller... - ... Storage Systems and ..., 2010 - ieeexplore.ieee.org

... workloads showing that more than 93% of device blocks remain unchanged over a day, and that for more specialized workloads less than 0.5% of a **shingled-write disk's** capacity would be needed to hold randomly updated blocks. I. INTRODUCTION **Disk drive** capacity has ...

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